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Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/369,992 08/06/99 KARA

A 64-99 :

023713 HM12/0629  
GREENLEE WINNER AND SULLIVAN P C  
5370 MANHATTAN CIRCLE  
SUITE 201  
BOULDER CO 80303

EXAMINER

GRUN, J

ART UNIT

PAPER NUMBER

1641

DATE MAILED:

06/29/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

09/369,992



UNITED STATES DEPARTMENT OF COMMERCE  
 Patent and Trademark Office  
 COMMISSIONER OF PATENTS AND TRADEMARKS  
 Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO.

EXAMINER	
ART UNIT	PAPER NUMBER
	18

DATE MAILED:

Please find below a communication from the EXAMINER in charge of this application

Commissioner of Patents

The communication filed on 17 May 2001 is not fully responsive to the communication mailed 29 March 2001 for the reason(s) set forth on the attached Notice to Comply With Requirements For...Sequence Disclosures and/or CRF Diskette Problem Report.

Since the response appears to be bona fide, but through an apparent oversight or inadvertence failed to provide a complete response, applicant is given **ONE (1) MONTH or THIRTY (30) DAYS** from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR § 1.136(a).

Any inquiry concerning this communication should be directed to Examiner James Grun, Ph.D, Technology Center 1600, Group 1640, Art Unit 1641, whose telephone number is (703) 308-3980. If unable to reach the Examiner, Long Le, SPE, can be contacted at (703) 305-3399.

Any questions regarding compliance with the sequence rules requirements specifically should be directed to the departments listed at the bottom of the Notice To Comply.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

James L. Grun, Ph.D.  
 June 25, 2001

CHRISTOPHER L. CHIN  
 PRIMARY EXAMINER  
 GROUP 1800/1641

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

- ☐ 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
- ☐ 7. Other: \_\_\_\_\_

**Applicant Must Provide:**

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

PatentIn Software Program Support (SIRA)

Technical Assistance.....703-287-0200

To Purchase PatentIn Software.....703-306-2600

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE**

1641

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/369,992A

DATE: 05/30/2001  
TIME: 11:10:52

Input Set : A:\PTO.txt  
Output Set: C:\CRF3\05302001\I369992A.raw

Does Not Comply  
Corrected Diskette Needed

4-5

3 <110> APPLICANT: Kara, Anna  
4 Ting, Robert  
5 Tham, Jill  
6 Nelson, James  
7 Tan, Theresa  
9 <120> TITLE OF INVENTION: Diagnosis of Plasmodium Infection by Analysis of  
Extrachromosomal Genetic  
10 Material  
12 <130> FILE REFERENCE: 64-99  
14 <140> CURRENT APPLICATION NUMBER: 09/369992A  
C--> 15 <141> CURRENT FILING DATE: 1999-08-06  
17 <150> PRIOR APPLICATION NUMBER: AU PO4953/97  
18 <151> PRIOR FILING DATE: 1997-02-06  
20 <150> PRIOR APPLICATION NUMBER: AU PO6329/97  
21 <151> PRIOR FILING DATE: 1997-04-21  
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## RAW SEQUENCE LISTING

DATE: 05/30/2001

PATENT APPLICATION: US/09/369,992A

TIME: 11:10:52

Input Set : A:\PTO.txt

Output Set: C:\CRF3\05302001\I369992A.raw

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## RAW SEQUENCE LISTING

DATE: 05/30/2001

PATENT APPLICATION: US/09/369,992A

TIME: 11:10:52

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Output Set: C:\CRF3\05302001\I369992A.raw

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270 ccttatctta accttttagg ttatatattt cattattaaa acttattata tattataaat 1080
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274 attatatata catataataa aattatcatt aaaactagaa gatttaataa aattatattt 1200
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## RAW SEQUENCE LISTING

DATE: 05/30/2001

PATENT APPLICATION: US/09/369,992A

TIME: 11:10:52

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Output Set: C:\CRF3\05302001\I369992A.raw

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284 taataatttg agatataaat gattctcatg gtgactctgt atttttttca aataatgtaa 1500
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288 atcgaaataa gattgataga catattttatt aattttttaa ttataattat atttactaga 1620
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305 taaatatagg tcaaataatta gagggatatat atggattaaa tagtttatat ttaaataata 180
307 gatataataat atctaataat ttaaatacta attattataa taattatatt aataatttta 240
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317 aaagatttgg tgaaatggaa gtatgggcgc tagaag 516

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321 &lt;211&gt; LENGTH: 161

322 &lt;212&gt; TYPE: DNA

323 &lt;213&gt; ORGANISM: Plasmodium berghei

325 &lt;400&gt; SEQUENCE: 4

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328 gctataatga cttaataata ttattattat aatagaatat aaccaaaagg ttaaggtaat 120
330 gaactttgat ttcattaata taggttcgaa tccttttagga c 161

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333 &lt;210&gt; SEQ ID NO: 5

334 &lt;211&gt; LENGTH: 17

335 &lt;212&gt; TYPE: DNA

336 &lt;213&gt; ORGANISM: Artificial

338 &lt;220&gt; FEATURE:

339 &lt;223&gt; OTHER INFORMATION: OLIGONUCLEOTIDE USEFUL AS PRIMER

341 &lt;400&gt; SEQUENCE: 5

342 gacctgcatg aaagatg 17

345 &lt;210&gt; SEQ ID NO: 6

346 &lt;211&gt; LENGTH: 18

347 &lt;212&gt; TYPE: DNA

C--&gt; 348 &lt;213&gt; ORGANISM: ARTIFICIAL (OLIGONUCLEOTIDE AS PRIMER)

W--&gt; 350 &lt;220&gt; FEATURE:

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350 &lt;400&gt; SEQUENCE: 6

351 gtatcgcttt aataggcg 18

354 &lt;210&gt; SEQ ID NO: 7

355 &lt;211&gt; LENGTH: 18

356 &lt;212&gt; TYPE: DNA

## RAW SEQUENCE LISTING

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Input Set : A:\PTO.txt

Output Set: C:\CRF3\05302001\I369992A.raw

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     368 <400> SEQUENCE: 8  
     369 gcgttcattc tgagctag  
     372 <210> SEQ ID NO: 9  
     373 <211> LENGTH: 24  
     374 <212> TYPE: DNA  
 C--> 375 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER  
 W--> 377 <220> FEATURE:  
 W--> 377 <223> OTHER INFORMATION:  
     377 <400> SEQUENCE: 9  
     378 gcggttaatac agaaaatgca agcg  
     381 <210> SEQ ID NO: 10  
     382 <211> LENGTH: 26  
     383 <212> TYPE: DNA  
 C--> 384 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER  
 W--> 386 <220> FEATURE:  
 W--> 386 <223> OTHER INFORMATION:  
     386 <400> SEQUENCE: 10  
     387 agcacgaact gacgacagcc atgcac  
     390 <210> SEQ ID NO: 11  
     391 <211> LENGTH: 18  
     392 <212> TYPE: DNA  
 C--> 393 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER  
 W--> 395 <220> FEATURE:  
 W--> 395 <223> OTHER INFORMATION:  
     395 <400> SEQUENCE: 11  
     396 atcaggaata cgtctagg  
     399 <210> SEQ ID NO: 12  
     400 <211> LENGTH: 18  
     401 <212> TYPE: DNA  
 C--> 402 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER  
 W--> 404 <220> FEATURE:  
 W--> 404 <223> OTHER INFORMATION:  
     404 <400> SEQUENCE: 12  
     405 gctagtatta tgtcttct  
     408 <210> SEQ ID NO: 13  
     409 <211> LENGTH: 18  
     410 <212> TYPE: DNA  
 C--> 411 <213> ORGANISM: ARTIFICIAL: OLIGONUCLEOTIDE USEFUL AS A PRIMER

*same*

18

*same*

18

*same*

24

*same*

26

*same*

18

*same*

18

*same*

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.



## VERIFICATION SUMMARY

DATE: 05/30/2001

PATENT APPLICATION: US/09/369,992A

TIME: 11:10:53

Input Set : A:\PTO.txt

Output Set: C:\CRF3\05302001\I369992A.raw

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:336 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:348 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:350 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:350 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:357 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
L:359 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:359 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:366 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8  
L:368 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:368 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:375 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9  
L:377 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:377 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:384 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10  
L:386 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:386 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:393 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11  
L:395 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:395 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:402 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12  
L:404 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:404 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:411 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13  
L:413 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:413 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:420 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14  
L:422 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:422 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:429 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15  
L:431 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:431 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:438 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16  
L:440 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:440 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:447 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17  
L:449 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:449 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:456 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18  
L:458 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:458 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:465 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19  
L:467 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:467 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:474 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20  
L:476 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:476 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:483 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21

## VERIFICATION SUMMARY

DATE: 05/30/2001

PATENT APPLICATION: US/09/369,992A

TIME: 11:10:53

Input Set : A:\PTO.txt

Output Set: C:\CRF3\05302001\I369992A.raw

L:485 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:485 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:492 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:22  
L:494 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:494 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:1442 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:48  
L:1444 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:1444 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:1451 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:49  
L:1453 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:1453 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:1460 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:50  
L:1462 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:1462 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:1469 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:51  
L:1471 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:1471 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:1478 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:52  
L:1480 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:1480 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:  
L:1487 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:53  
L:1489 M:258 W: Mandatory Feature missing, <220> FEATURE:  
L:1489 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: